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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/936,479	09/13/2001	Siegfried Schweidler	PD990014	6074

7590 02/26/2004

Joseph S Tripoli
Thomson Multimedia Licensing
PO Box 5312
Princeton, NJ 08540

EXAMINER

LI, ZHUO H

ART UNIT	PAPER NUMBER
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2186

DATE MAILED: 02/26/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

09/936,479

Applicant(s)

SCHWEIDLER ET AL.

Examiner

Zhuo H. Li

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 September 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 3.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 9/3/2001 (paper no. 3) has been considered.

Response to Preliminary Amendment

2. This office action is in response to the preliminary amendment filed 9/13/2001.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 2, the term "any" renders the claim vague and indefinite because the term has alternative meaning, which does not positively identify the claimed limitations.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 1- are rejected under 35 U.S.C. 103(a) as being unpatentable over Smyers et al. (WO 98/47271A1 hereinafter Smyers) in view of Simms et al. (US PAT. 6,161,155 hereinafter Simms).

Regarding claim 1, Smyers discloses a method for the management of isochronous data received via a data bus (58, figure 1), the data being transmitted in bus packets having a variable length, the data being pre-processing and manipulating before it is delivered so that section-by-section transmission of the data source packet within the framework of data blocks being permitted (page 3 line 20 through page 5 line 26 and page 8 line 23 through page 11 line 15). Smyers differs from the claimed invention in not specifically teaching the data being divided into data block having a defined length, and modulo-n counting of the data blocks is carried out in order to determine the data source packet boundaries and in that the beginning of a new data source packet is signaled to a memory management device at the beginning of the next count interval. However, Simms discloses a method for determining source packet boundaries by

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counting of data blocks having a defined length, in order to improve the system for preserving block data format information as block data is written into and read from a buffer memory of a receiving device. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Symers in having the data being divided into data block having a defined length, and modulo-n counting of the data blocks is carried out in order to determine the data source packet boundaries and in that the beginning of a new data source packet is signaled to a memory management device at the beginning of the next count interval, as per teaching of Simms, in order to improve the system for preserving block data format information as block data is written into and read from a buffer memory of a receiving device.

Regarding claims 2-3, Simms discloses each bus packet being subjected to CRC checking and the checking result are buffer-stored in order to enable to ascertain where the data source packet transmitted in two or more bus packet has been transmitted without errors, wherein a reference counter reading is transmitted in each bus packet in order to check the completeness of the transmitted data and the result of the comparison counting being compared with the reference counter reading when the data block associated with the reference counter reading is received (col. 5 line 38 through col. 6 line 12).

Regarding claim 4, Simms discloses the define number of n-of-data blocks of a data source packet corresponds to the number 8 and the modulo-n counting corresponding modulo-8 counting (col. 2 lines 44-53 and col. 4 lines 1-11).

Regarding claim 5, Simms teaches to carry out the method for the management of data including a memory unit, a memory management device with a modulo-n counter for counting

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received data block and outputting a data source packet start signal to the memory management device (col. 3 line 45 through col. 4 line 11).

Regarding claims 6-7, the limitations of the claims are rejected as the same reasons set forth in claims 2-3.

Regarding claim 8, Simms teaches to count data in particular in units of bytes and which outputs a data block counting signals if the number of data that have been counted are as many as are defined as belonging to a data block (col. 2 lines 44-53 and col. 4 lines 1-11).

Regarding claim 9, Smyers teaches to design the data bus according to the IEEE 1394 standard, which is part of a data link layer module in the interface for data bus (page 1 lines 13-28).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ganapathy et al. (US Pat. 6,182,089) discloses a method for dynamically allocating large memory pages of different sizes (abstract).

8. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 308-6606

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Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,
Arlington, VA, Fourth Floor (Receptionist).

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zhuo H. Li whose telephone number is 703-305-3846. The examiner can normally be reached on Tuesday to Friday from 9:30 a.m. to 7:00 p.m. The examiner can also be reached on alternate Monday.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Kim, can be reached on (703) 305-3821.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Zhuo H. Li



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MATTHEW KIM
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100